

## Abstract

The present invention provides automatic program generation technology that enables the generation of a diverse range of programs with fewer models. The automatic program generation device of the present invention, which automatically generates programs that will perform the predetermined processing, comprises a plurality of data structure resolution units that respectively include a model program for a corresponding data structure, wherein the model program includes resolution logic for performing a setting peculiar to the predetermined processing; and a resolution unit for generating a program for performing the predetermined processing by acquiring resolution information relating to the setting peculiar to the predetermined processing for resolution logic included in the model program in the data structure resolution unit corresponding to a selected data structure and by synthesising the model program and the resolution information for the resolution logic. In the present invention, model programs are prepared in correspondence with data structures. Compared with the preparation of a model for each use and/or processing flow, it enables the generation of a diverse range of programs with fewer models.